



Product Name	ScrollToo T955 Laser
Model No.	GM-080009/T
FCC ID	FSUGMZIJ

Applicant	KYE SYSTEMS CORP. (Genius)		
Address	No. 492, Sec. 5, Chung Hsin Rd., San Chung,		
	Taipei Hsien, 24160, Taiwan, R. O. C.		

Date of Receipt	July 14, 2008
Issued Date	July 22, 2008
Report No.	087241R-RFUSP07V01
Version	V1.0

The test results relate only to the samples tested.

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Test Report Certification

Issued Date: July 22, 2008

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ScrollToo T955 Laser		
KYE SYSTEMS CORP. (Genius)		
No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei Hsien, 24160, Taiwan, R. O. C.		
KYE SYSTEMS CORP. (Genius)		
GM-080009/T		
DC 3V(Power by battery)		
DC 3V(Power by battery)		
Genius		
FCC CFR Title 47 Part 15 Subpart C: 2007		
ANSI C63.4: 2003 NVLAP Lab Code: 200533-0 V Complied		

Test results relate only to the samples tested.

Tested By

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lac-MRA

Testing Laboratory

0914



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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	ScrollToo T955 Laser	
Trade Name	Genius	
Model No.	GM-080009/T	
FCC ID	FSUGMZIJ	
Frequency Range	2402~2480MHz	
Channel Control	Auto	
Channel Separation	1MHz	
Antenna Gain	-3dBi	
Channel Number	79	
Type of Modulation	GFSK	
Antenna Type	Printed on PCB	

Frequency of Each Channel

```
Frequency
                      Channel
                                Frequency
                                           Channel
                                                     Frequency
                                                                 Channel
                                                                          Frequency
Channel 01: 2402 MHz Channel 21: 2422 MHz Channel 41: 2442 MHz Channel 61: 2462 MHz
Channel 02: 2403 MHz Channel 22: 2423 MHz Channel 42: 2443 MHz Channel 62: 2463 MHz
Channel 03: 2404 MHz Channel 23: 2424 MHz Channel 43: 2444 MHz Channel 63: 2464 MHz
Channel 04: 2405 MHz Channel 24: 2425 MHz Channel 44: 2445 MHz Channel 64: 2465 MHz
Channel 05: 2406 MHz Channel 25: 2426 MHz Channel 45: 2446 MHz Channel 65: 2466 MHz
Channel 06: 2407 MHz Channel 26: 2427 MHz Channel 46: 2447 MHz Channel 66: 2467 MHz
Channel 07: 2408 MHz Channel 27: 2428 MHz Channel 47: 2448 MHz Channel 67: 2468 MHz
Channel 08: 2409 MHz Channel 28: 2429 MHz Channel 48: 2449 MHz Channel 68: 2469 MHz
Channel 09: 2410 MHz Channel 29: 2430 MHz Channel 49: 2450 MHz Channel 69: 2470 MHz
Channel 10: 2411 MHz Channel 30: 2431 MHz Channel 50: 2451 MHz Channel 70: 2471 MHz
Channel 11: 2412 MHz Channel 31: 2432 MHz Channel 51: 2452 MHz Channel 71: 2472 MHz
Channel 12: 2413 MHz Channel 32: 2433 MHz Channel 52: 2453 MHz Channel 72: 2473 MHz
Channel 13: 2414 MHz Channel 33: 2434 MHz Channel 53: 2454 MHz Channel 73: 2474 MHz
Channel 14: 2415 MHz Channel 34: 2435 MHz Channel 54: 2455 MHz Channel 74: 2475 MHz
Channel 15: 2416 MHz Channel 35: 2436 MHz Channel 55: 2456 MHz Channel 75: 2476 MHz
Channel 16: 2417 MHz Channel 36: 2437 MHz Channel 56: 2457 MHz Channel 76: 2477 MHz
Channel 17: 2418 MHz Channel 37: 2438 MHz Channel 57: 2458 MHz Channel 77: 2478 MHz
Channel 18: 2419 MHz Channel 38: 2439 MHz Channel 58: 2459 MHz Channel 78: 2479 MHz
Channel 19: 2420 MHz Channel 39: 2440 MHz Channel 59: 2460 MHz Channel 79: 2480 MHz
Channel 20: 2421 MHz Channel 40: 2441 MHz Channel 60: 2461 MHz
```



- 1. The EUT is a ScrollToo T955 Laser with a built-in 2.4GHz transceiver.
- 2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
- 4. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249 for spread spectrum devices.
- 5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.



1.2. Operational Description

The EUT is 2.4GHz Wireless Mouse built-in 2.4GHz transceiver. The operation frequency is from 2402 MHz to 2480MHz with GFSK modulation. The signal will be transmitted through 2.4 GHz RF signal from the Printed on PCB antenna. DC 3V shall be provided for EUT operation.

Test Mode	Mode 1: Transmitter
-----------	---------------------



1.3. Tested System Datails

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Р	oduct	Manufacturer	Model No.	Serial No.	Power Cord
1	N/A	N/A	N/A	N/A	N/A

	Signal Cable Type	Signal cable Description	
Α	N/A	N/A	

1.4. Configuration of Test System



1.5. EUT Exercise Software

1	Setup the EUT as shown on 1.4.		
2	Turn on the power for EUT.		
3	The EUT to enter RF test mode.		
4	The EUT will continuously receiver the radio signal.		
5	Repeat the above procedure (3) to (4)		



1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: File on

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046

Registration Number: 92195

Accreditation on NVLAP NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation

Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,

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FCC Accreditation Number: TW1014







2. Radiated Emission

2.1. Test Equipment

The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☐Site # 1	Test Receiver		R&S	ESVS 10 / 834468/003	May, 2008
		Spectrum Analyzer	Advantest	R3162/ 00803480	May, 2008
		Pre-Amplifier	Advantest	BB525C/ 3307A01812	May, 2008
		Bilog Antenna	SCHAFFNER	CBL6112B / 2697	Sep., 2007
☐Site # 2		Test Receiver	R&S	ESCS 30 / 836858 / 022	May, 2008
		Spectrum Analyzer	Advantest	R3162 / 100803466	May, 2008
		Pre-Amplifier	Advantest	BB525C/3307A01814	May, 2008
		Bilog Antenna	SCHAFFNER	CBL6112B / 2705	May, 2008
		Horn Antenna	ETS	3115 / 0005-6160	Sep., 2007
		Pre-Amplifier	QTK	QTK-AMP-01/ 0001	May, 2008
⊠Site # 3	Χ	Test Receiver	R&S	ESI 26 / 838786/004	May, 2008
	Χ	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2008
	Χ	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2008
	Χ	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2008
	Χ	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2008
	Χ	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2008
	Χ	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2008
	Χ	Pre-Amplifier	HP	8449B / 3008A01123	July, 2008

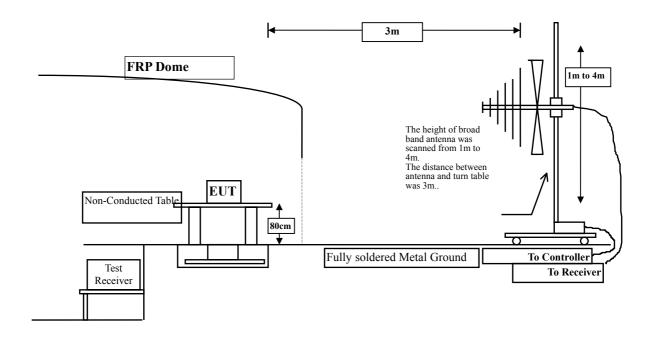
Note: 1. All equipments are calibrated every one year.

2. Test equipments marked by "X" are used to measure the final test results.

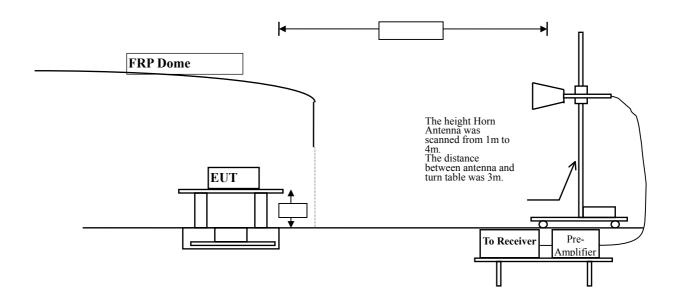


2.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz





2.3. Limits

> General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits								
Frequency MHz	uV/m @3m	dBuV/m@3m						
30-88	100	40						
88-216	150	43.5						
216-960	200	46						
Above 960	500	54						

Remarks: E field strength $(dBuV/m) = 20 \log E$ field strength (uV/m)

>Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.249(a) Limits										
Frequency	Field Strength	of Fundamental	Field Strength	of Harmonics						
MHz	(mV/m @3m)	(dBuV/m	(uV/m @3m)	(dBuV/m						
		@3m)		@3m)						
902-928	50	94	500	54						
2400-2483.5	50	94	500	54						
5725-5875	50	94	500	54						
24000-2425	250	108	2500	68						
0										

Remarks : 1. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.



2.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement. The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB beamwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The frequency range from is checked.

2.5. Uncertainty

- ± 3.9 dB above 1GHz
- + 3.8 dB below 1GHz



2.6. Test Result of Radiated Emission

Product : ScrollToo T955 Laser

Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmitter

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
Channel 01					
2402.000	-6.725	88.450	81.725	-32.275	114.000
Average Detector					
Vertical					
Peak Detector:					
Channel 01					
2402.000	-6.725	84.990	78.265	-35.735	114.000

Average Detector

--

- 1. Measurement Level = Reading Level + Correct Factor.
- 2. Correct Factor = Antenna Factor + Cable Loss PreAMP.



Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmitter

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					_
Peak Detector:					
Channel 47					
2440.000	-6.587	88.650	82.063	-31.937	114.000
Average Detector					
Vertical					
Peak Detector:					
Channel 47					
2440.000	-6.587	86.850	80.263	-33.737	114.000

Average Detector

--

- 1. Measurement Level = Reading Level + Correct Factor.
- 2. Correct Factor = Antenna Factor + Cable Loss PreAMP.



Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmitter

Frequency	Correct Factor	Reading Level	Measurement Level	Margin 	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
Channel 79					
2479.000	-6.479	93.260	86.781	-27.219	114.000
Average Detector					
Vertical					
Peak Detector:					
Channel 79					
2479.000	-6.479	91.200	84.721	-29.279	114.000

Average Detector

--

- 1. Measurement Level = Reading Level + Correct Factor.
- 2. Correct Factor = Antenna Factor + Cable Loss PreAMP.



Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (2402MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
1601.000	-9.377	54.760	45.382	-28.588	74.000
3202.000	-5.075	51.860	46.785	-27.185	74.000
4804.000	-0.205	53.160	52.955	-21.015	74.000
7206.000	3.294	44.940	48.234	-25.736	74.000
9608.000	5.696	44.710	50.406	-23.564	74.000
Average Detector:					
Vertical					
Peak Detector:					
1601.000	-9.377	56.350	46.972	-26.998	74.000
3202.000	-5.075	53.420	48.345	-25.625	74.000
4804.000	-0.205	53.220	53.015	-20.955	74.000
7206.000	3.294	45.300	48.594	-25.376	74.000
9608.000	5.696	42.130	47.826	-26.144	74.000

Average Detector:

--

- 1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
- 2. Receiver setting (Peak Detector): RBW:1MHz; VBW:1MHz; Span:100MHz •
- 3. Receiver setting (AVG Detector): RBW:1MHz; VBW:3KHz; Span:20MHz •
- 4. Emission Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.



Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (2440 MHz)

Frequency	Correct Reading		Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
1627.000	-9.338	59.040	49.702	-24.268	74.000
3254.000	-4.828	52.570	47.742	-26.228	74.000
4880.000	-0.274	52.010	51.736	-22.234	74.000
7320.000	3.318	45.620	48.938	-25.032	74.000
9760.000	6.246	43.230	49.476	-24.494	74.000
Average Detector:					
Vertical					
Peak Detector:					
1627.000	-9.338	59.030	49.692	-24.278	74.000
3254.000	-4.828	48.320	43.492	-30.478	74.000
4880.000	-0.274	53.510	53.236	-20.734	74.000
7320.000	3.318	41.260	44.578	-29.392	74.000
9760.000	6.246	38.250	44.496	-29.474	74.000

Average Detector:

--

- 1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
- 2. Receiver setting (Peak Detector): RBW:1MHz; VBW:1MHz; Span:100MHz •
- 3. Receiver setting (AVG Detector): RBW:1MHz; VBW:3KHz; Span:20MHz •
- 4. Emission Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

-33.792

-27.585

74.000

74.000



Product : ScrollToo T955 Laser

Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (2480 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
1653.000	-9.278	61.650	52.372	-21.598	74.000
3306.000	-4.781	52.760	47.978	-25.992	74.000
4958.000	0.565	45.400	45.965	-28.005	74.000
7437.000	3.908	40.410	44.318	-29.652	74.000
9916.000	6.475	39.520	45.995	-27.975	74.000
Average Detector:					
Vertical					
Peak Detector:					
1653.000	-9.278	61.640	52.362	-21.608	74.000
3306.000	-4.781	47.430	42.648	-31.322	74.000
4958.000	0.565	49.530	50.095	-23.875	74.000

Average Detector:

7437.000

9916.000

--

Note:

1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.

40.178

46.385

- 2. Receiver setting (Peak Detector): RBW:1MHz; VBW:1MHz; Span:100MHz •
- 3. Receiver setting (AVG Detector): RBW:1MHz; VBW:3KHz; Span:20MHz •

36.270

39.910

4. Emission Level = Reading Level + Correct Factor.

3.908

6.475

5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.



Test Item : General Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (2440 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
256.980	14.097	4.321	18.418	-27.582	46.000
405.540	16.687	6.803	23.490	-22.510	46.000
460.680	18.626	8.754	27.380	-18.620	46.000
654.560	20.823	-0.452	20.371	-25.629	46.000
834.540	21.877	3.460	25.337	-20.663	46.000
951.500	22.762	0.212	22.974	-23.026	46.000
Vertical					
374.320	16.615	5.630	22.245	-23.755	46.000
529.580	18.993	4.635	23.628	-22.372	46.000
606.240	21.805	1.102	22.907	-23.093	46.000
684.720	20.300	2.897	23.197	-22.803	46.000
826.340	21.423	1.791	23.214	-22.786	46.000
964.960	22.949	0.599	23.548	-30.452	54.000

- 1. The reading levels below 1GHz are quasi-peak values.
- 2. " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.



3. Band Edge

3.1. Test Equipment

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R&S	ESI 26 / 838786/004	May, 2008
Χ	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2008
Χ	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2008
Χ	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2008
Χ	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2008
Χ	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2008
Χ	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2008
Χ	Pre-Amplifier	HP	8449B / 3008A01123	July, 2008

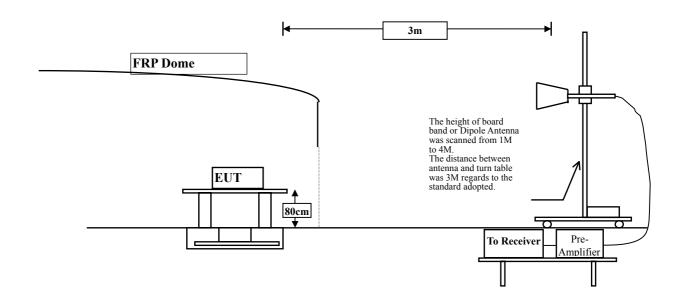
Test Site: Site3

Note: 1. All equipments are calibrated every one year.

2. The test equipments marked by "X" are used to measure the final test results.

3.2. Test Setup

RF Radiated Measurement:





3.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

3.5. Uncertainty

Conducted is ± 1.27 dB

Radiated is + 3.9 dB



3.6. Test Result of Band Edge

Product : ScrollToo T955 Laser
Test Item : Band Edge Data
Test Site : No.3 OATS

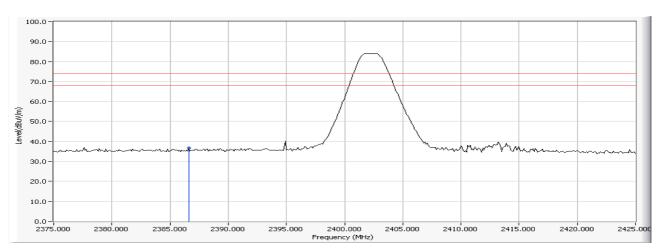
Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2386.600	-6.778	43.402	36.624	74.00	54.00	Pass
01(Average)		-			74.00	54.00	Pass

Figure Channel 01:

Horizontal (Peak)





Product : ScrollToo T955 Laser Test Item : Band Edge Data

Test Site : No.3 OATS

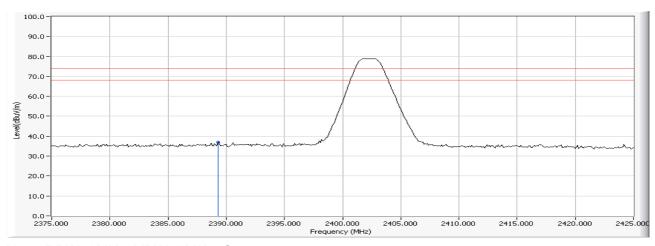
Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.300	-6.770	43.697	36.927	74.00	54.00	Pass
01(Average)					74.00	54.00	Pass

Figure Channel 01:

Vertical (Peak)





Product : ScrollToo T955 Laser
Test Item : Band Edge Data
Test Site : No.3 OATS

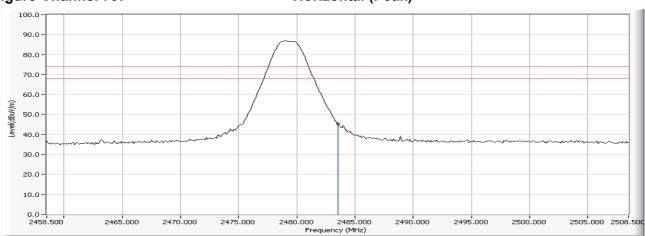
Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result				
79(Peak)	2483.500	-6.469	51.723	45.255	74.00	54.00	Pass				
79(Average)		-			74.00	54.00	Pass				

Figure Channel 79:

Horizontal (Peak)





Product : ScrollToo T955 Laser
Test Item : Band Edge Data
Test Site : No.3 OATS

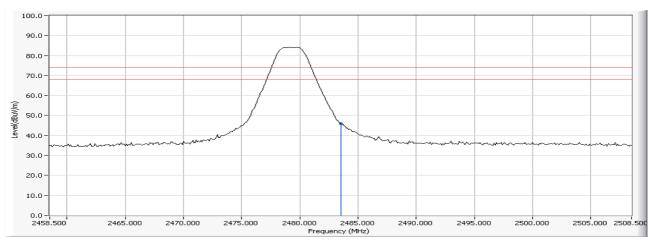
Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
79(Peak)	2483.500	-6.469	52.331	45.863	74.00	54.00	Pass
79(Average)					74.00	54.00	Pass

Figure Channel 79:

Vertical (Peak)





4. EMI Reduction Method During Compliance Testing

No modification was made during testing.